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proposed and illustrated some novel views in respect to the formation of mountain-chains.

These views were discussed with Professors Agassiz, Rogers, and others.

Four hundred and ninety-sixth meeting.

May 28, 1861. — ANNUAL MEETING.

The VICE-PRESIDENT in the Chair.

The Corresponding Secretary read letters relative to the exchanges of the Academy. He also read, as Secretary of the Council,

The Annual Report of the Council relative to the Personnel of the Academy.

During the past year the Academy has elected four Resident Fellows, four Associate Fellows, and three Foreign Honorary Members.

Three of the Resident Fellows belong to the Third Class, and one to the First Class.

Two of the Associates were elected into the First Class, one into the Second, and one into the Third Class.

Two of the Foreign Honorary Members chosen, viz. DOVE and KÖLLIKER, fill places vacated in the Second Class. The third, the distinguished and aged VON RAUCH, the Nestor of sculptors, who was nominated by the Council a year ago, had deceased some time before the election took place.

From our immediate ranks, three Resident Fellows have been removed by death during the past year; viz. the REV. DR. HEMAN HUMPHREY, formerly President of Amherst College, the late CHIEF JUSTICE SHAW, and the HON. DANIEL APPLETON WHITE, being three of the most venerable members, and all three belonging to the First Section of the Third Class of the Academy.

Dr. Humphrey, who has long held the rank of one of the most distinguished New England divines, was the first President of Amherst College, and he worthily presided over that institution for twenty-two years. Upon retiring from this position, in the year 1845, he resumed his residence at Pittsfield, of the First Church in which place he

had formerly been pastor; and here he closed his useful and honorable earthly career, in September last, at the advanced age of eighty-two years. He was elected into the Academy in the year 1842; but, having resided at a great distance from Boston, has rarely, if ever, attended its meetings.

Our loss in the death of the late Chief Justice, and of Judge White, of so recent occurrence, is more immediately and sensibly felt. For in that event the Academy was bereaved, upon the same day, of two of our most experienced and efficient, as well as most venerated members. In the eulogies pronounced at the meeting which immediately ensued, and in the resolves then adopted, this society has so fully expressed its exalted estimation of the character and services of these great and good men, and its deep sense of the loss it has sustained in their removal, that it would be supererogatory for the Council to undertake anew a duty already performed so lately and so well.

We have only to record that the Hon. Lemuel Shaw was chosen a Fellow of the Academy in the year 1823. He was born in Barnstable, on the 9th of January, 1781; he died on the 30th of March last, at the age of eighty years.

Judge White was born five years and two days earlier, viz. on the 7th of January, 1776, in that part of Methuen which is now the city of Lawrence; and he survived for a few hours only his associate and friend. Having been elected in the year 1812, the late Judge White was for almost half a century a Fellow of this Academy, — a length of service which is surpassed by only five surviving members.

Only one Associate Fellow is known to have deceased since the last annual meeting, viz. the Rev. Professor CHARLES B. HADDOCK, formerly of Dartmouth College, New Hampshire, who died on the 15th of January last. He was born in Franklin, then a part of Salisbury, New Hampshire, in the summer of 1796; his father was a trader in that town; his mother was an older sister of Ezekiel and Daniel Webster. He entered Dartmouth College in 1812, was graduated with distinguished honors in 1816, and immediately began the study of theology at Andover. In 1819 he was chosen to fill the newly established chair of Rhetoric in the College where less than three years before he had taken his first degree; and in 1838 he was translated to the department of Intellectual Philosophy. In 1850 he received from Mr. Fillmore the appointment of *Chargé d'Affaires* at the Court of Portugal, which he held until the year 1855; and, returning to his native

State, he passed the remainder of his life at West Lebanon, in literary pursuits and in the occasional discharge of the duties of the clerical profession. His colleagues at Dartmouth College speak of him as having been an admirable instructor, of rare courtesy and kindness, a discriminating and suggestive critic, with sufficient knowledge and an unusual power of expression. In 1846 he published a volume of *Addresses and Miscellaneous Writings*, marked by the completeness, the simplicity of style, the good sense, and the pure taste which characterized all his literary productions. His more recent writings, notes of foreign travel, lectures, and discourses, he had begun to prepare for the press, and some of them may yet be published.

Professor Haddock was as urbane and courteous as he was accomplished. He never obtruded himself upon public notice, but it was impossible that he should remain unregarded in whatever community he might reside. One of his maxims, "Do well and wait," he so exemplified in his life, that his friends sometimes wished he were less moderate in his desires, and more strenuous in literary activity. In his position as Minister to Portugal, not indeed one of great responsibility, yet important, he so performed its duties as to make one feel that, if they had been far more delicate and onerous, he would have been quite equal to them.

Two Foreign Honorary Members have deceased during the past year, both German, one of the Second, the other of our Third Class; viz. the venerable and profound anatomist and zoölogist, TIEDEMANN, and the distinguished scholar, BUNSEN.

FRIEDRICH TIEDEMANN died at the age of eighty years, having been born in Cassel in 1781. His father was distinguished as a Professor of Philosophy at Marburg, where the son was graduated in 1804, remaining there as a *privat-docent* until the following year, when he was appointed Professor of Anatomy and Zoölogy at Landshut. In 1816 he was chosen to fill the Professorship of Physiology at Heidelberg, where he remained until 1849, enjoying a distinguished reputation throughout Europe, both for his fidelity as a teacher, and for the merits of his anatomical and physiological investigations. During the political disturbances of 1849, his son, commandant of the fortress at Karlstadt, was shot on account of his sympathies and co-operation with the popular movement, when the father refused any longer to hold an office in the gift of the government. Since then he has lived in retirement, and died in Munich, at the residence of his son-in-law, Bischoff, so distinguished for his embryological investigations.

His published scientific works are numerous, relating to comparative anatomy, to special anatomical studies, to normal development, to monstrosities, and to the physiology of digestion. His investigations on this last subject were made conjointly with Gmelin, who brought in aid his extensive knowledge of chemistry. They studied especially the free acids which are found in the stomach during digestion, and the influence of them on the solution of the food, the changes which take place in the nutritive materials during the passage through the intestines, and the effect of the prevention of the entrance of the bile into the duodenum by the tying of the bile duct. They demonstrated the absorption of fatty substances by the lacteals, and their relation to the color of the chyle; also some of the more important differences between the kind of materials taken up by the lacteals and the veins. On account of the accuracy with which their experiments were performed, and of their having brought both chemistry and anatomical physiology to their aid in conducting them, they have been looked upon, until within a very short time, as of the highest authority on every question connected with the subject of digestion, and Müller commended them as containing all that was positively known with regard to the changes which the chyme undergoes in the small intestines.

Among the anatomical labors of Tiedemann his great work entitled "*Tabulæ Arteriarum Corporis Humani*" deserves especial mention. It is the most admirable of the works of the kind which have been published. The plates are accurately drawn, of the size of nature, and mostly from recent dissections. This work not only gives a full description of the arterial system as it ordinarily exists, but also the most complete account of the anomalies to which the arteries are liable, and especially the arch of the aorta and its branches. It is not as well known as it should be out of Germany, though it has proved a fruitful resource to those anatomists westward of the Rhine who have written upon the same subject.

In 1821 he published an important work on the brain of monkeys, and those of certain rare mammals which had not been previously described, as compared with the brain of man. This was fully illustrated by plates, very carefully prepared, and great pains were taken to make the proportional measurements of the different parts described precise. Among the more important conclusions which he draws from these examinations are the following; namely, that the cerebral hemispheres

of man are larger than those of monkeys when compared with the dimensions of the spinal cord of the cerebellum, medulla oblongata, or optic lobes; that, in the proportions of most of the parts just referred to, the seals, after the monkeys, are among the animals which approach nearest to man; and in the proportions of the brain to the spinal cord are nearer than these, and stand next to man.

His work on the development of the human brain has become classical. This was the result of patient labor, extending through several years, and has for its object a complete description, from his own dissections, of the changes which the brain undergoes from early foetal life to the end of gestation. The gradual evolution of parts is described for each month of intro-uterine life. In addition to the developmental phases which the brain presents under such circumstances, he has given a comparative exposition of its structure in the different classes of vertebrates, in order to show how far the formation of this organ in the human foetus goes through, in different embryonic periods, stages which correspond with, or resemble, the mature brains of the lower animals. These resemblances, which had been partially recognized by Meckel, were far more satisfactorily demonstrated and illustrated by Tiedemann. This work was published in 1816, and treats of a subject then new to physiological science; and out of Germany the ideas which it taught were generally received with ridicule by the physiologists of his time. To-day they are almost universally adopted. Better microscopes, and a more extensive use of them than was possible in his time, have added much to our knowledge of the development of the brain. No one work relating to the same subject presents better results than those contained in his monograph, and to this day it is the best authority.

In 1836 he presented to the Royal Society a memoir on the brain of the Negro compared with that of the European and the Orang-outang. In this he discusses the question, whether there is any essential difference between the brain of the Negro and that of the European, and whether the former resembles that of the Orang more closely than the brain of the European does. His desire to substantiate everything by the accumulation of facts is conspicuous in this memoir. His results are based upon a comparison of the weights of more than fifty brains, and the measurement of the internal capacity of two hundred and sixty-eight crania of different nations. From the data drawn from these sources, he concludes that, although the Negro

brain in some respects (as, for example, in its breadth as compared with its length, as also, to a slight extent, as regards its size and weight) is inferior to that of the European, in most others it is not so, and that the difference between the brain of the Negro and that of the Orang is far greater than between the former and the European. He concludes his memoir with a general survey of the contributions of Negroes to literature and science, and expresses full confidence in their capacity for progress in civilization, and believes that, but for the depressing influence of the African slave-trade, this capacity might soon become manifest.

He commenced a "Complete Treatise on Human Physiology," but this was never finished. The first two volumes, which are merely introductory, are remarkable for their broad and philosophical views, and are based upon a very extensive knowledge of comparative anatomy and physiology. The importance of these last sciences to the progress of human physiology no one more fully appreciated than he. Among other monographs published by him, those on the following subjects may be mentioned: —

On the Nerves of the Uterus.

On the Ophthalmic Ganglion and the Ciliary Nerves of Animals.

On the Comparative Anatomy of the Hearts of Fishes.

On the Anatomy of Anencephalous and Acephalous Monsters.

This last is a very complete monograph, and comprises the results of very numerous dissections.

His monograph on the structure of the Echinoderms was one of his most celebrated works, and received the prize of the French Institute in 1811. It was not published until 1816.

In forming an estimate of the value of Tiedemann's labors, we must not judge him by the standard of the present day. It is nearly twenty years since his period of activity ended, and in the mean while physiology has undergone a complete revolution. When he was retiring from the field of active life, the importance of the test-tube, the balance, and the microscope were only beginning to be appreciated. Liebig had just commenced his researches in physiological chemistry, and histological discoveries had only begun to influence the scientific world. Nevertheless, we are very largely indebted to him for the impulse which, during the last thirty years, has advanced physiology to the rank which it now holds among the sciences. Tiedemann's influence is to be attributed quite as much to the spirit

which he brought to his inquiries, and the thoroughness of his teaching, as to his actual contributions to the progress of science, though these have always been acknowledged as of great importance. With a mind eminently qualified for the work by an extensive knowledge of natural history and comparative anatomy, as well as by methodical and careful habits of investigation, he devoted himself earnestly and truthfully to the advancement of his science. Animated by the spirit of an aphorism of Bacon's, which he uses as a motto for one of his own works, "*Non fingendum aut excogitandum, sed quid natura faciat observandum*," he labored to bring everything to the test of direct observation and experiment.

CHRISTIAN CHARLES JOSIAS (BARON) BUNSEN died at Bonn on the 28th of November, 1860, aged sixty-nine years.

The key-note to Bunsen's literary life is struck in a single sentence in one of Dr. Arnold's letters: "I find in you that exact combination of tastes which I have in myself, for philological, historical, and philosophical pursuits, centring in moral and spiritual truths." In philology he sought to work his way up to the auroral life of mankind. Believing that language is in itself the most ancient and most certain record of the human race, and firmly persuaded of the unity of the race, he valued the remains of early speech as the oldest testimony to mental development, and studied them as great historical facts. In them he hoped to find a clew to the moral and spiritual formation of society. The reconstruction of the history of language would, as he conceived, furnish a scaffolding for the primeval history of religion. With these views, he welcomed every new round in the ladder, as it was fixed or supposed to be fixed by himself or his younger friends, and in his work on Egypt dwelt with peculiar satisfaction on the intermediate, but not unconnected, position which he thought was established for the language of that country, between the Semitic and Indo-Germanic families; thus bringing together the two great factors of modern civilization, which have supplied the chief elements of his favorite study, the philosophy of universal history.

Philology, philosophy, and theology were thus cemented in his mind. To him the cardinal truth of historical philosophy was the final victory of the divine principle of truth and justice. He saw in the past a sure movement in that direction, and had no doubt that the future would carry it through. Thus his method was professedly historical. With the *unhistorical* spirit, of which he saw about him the evils and

the dangers, he had no patience. "Christianity," he said, "stands or falls with the person of Christ as represented in the Gospels." Believing that the Christian religion had begun a new world, he warmly assailed whatever in the past or present appeared to clog its appointed work. He glorified the memory of the German Reformers, whom he honored as the regenerators of modern society. In this sense at least he was the most Protestant of Protestants. A revelation of God's will and truth he found not less in the providential advance of order and virtue, than in the Bible itself. He sought to unite the two revelations, and to express in broad generality the lessons of Scripture under the form of a philosophy of development. He calls the Bible "the mirror of universal history." With destructive rationalism, as such, he had no sympathy. Indeed, reconstruction seems to have been the dream of his life. He saw with sorrow the signs of a waning and setting faith around him. But he thought he also saw a deep and wide-spread yearning for a better light. To open the way to that was his cherished wish. His "Bibelwerk," as he himself explicitly declared, was undertaken in that spirit. Under this impulse, also, he strove to pierce through what he deemed the inventions of synods and councils, into the simple beliefs of the Apostolic age. And in the same temper he speculated hopefully on the Church of the Future. This may serve for a meagre sketch of his philosophy. It belongs to the theologian to decide on the value of his researches and theories. If some of his expressions are wanting in sharpness of boundary, and seem to play about the mind rather than to enter it, it is but just to their author to add his declaration, that his system forms in his own mind a connected whole. Dr. Arnold once wrote to him in reference to a theological point: "I believe that you have got hold of a truth which is as yet to me dark; just as I cannot understand music, yet nothing doubt that it is my fault, and not that of music." This is a modest and friendly expression of a real difficulty.

Bunsen has said that "Restoration, both in a philosophical and an historical sense, is the problem of the present day." His characteristic traits come out in his attempts at restoration. Reconstruction is always a delicate, often a slippery work. It involves a certain ratio of destruction, and it offers a tempting stage for the exhibition of favorite theories. To strike the exact proportion between what is to be saved and what thrown away, and to be duly jealous of one's own idols, is a hard trial to that sanguine cast of intellect which is almost

indispensable to the idea of restoration. Bunsen was undoubtedly sanguine. His language glows with the warmth of his convictions and the ardor of his hopes. It is even as strong as this: "The chronological dates which we deduce from Egyptian research render it necessary to remodel history, and enable us to remodel it." And surely a more honorable instance of steadfast industry can hardly be named in our day than his attempt to accomplish this. The title of his great work, "Egypt's Place in Universal History," bears witness to the wide range of his purpose and wish, and its execution is a monument of hopeful study. In restoring ancient chronology he knew the extreme difficulty of the task he undertook. He is very positive in his conclusions, though many of them are contested by able scholars. Egyptologists must fix Bunsen's place in their science. They can perhaps tell us how many degrees of Egyptian darkness he has cleared off. What is here said merely aims to point out his purpose and connect it with the great objects of his life.

Though Bunsen's apothegms and theses are not always transparent, at least to a common reader, he was not a man to deal in vague and sounding phrases that found no echo in his own heart. So far from this, it is impossible for his reader, even when a little doubtful of his meaning, to have the shadow of a doubt as to his zealous, hearty, and liberal spirit. Whoever approaches him, whether he agrees with the thinker or not, must respect the man. He was a stanch and fearless friend of liberal institutions in church and state, and found the warrant for them in the Christian religion itself. He rejoiced in the growing importance of the middle class in his own country, and made it his boast to have sprung from it himself. If in controversy his polemic zeal fell sometimes heavy on an opponent, it was not in any poor or grovelling cause. Materialism and despotism he hated with all his soul. He had the eye to recognize and the force to stimulate the studies and efforts of others, and his death snaps one of the last links between men of the past, like Heyne, Niebuhr, and Arndt, and younger scholars, like Lepsius and Max Müller, whose co-operation he gladly sought and fairly acknowledged. His long residence at the Court of St. James's, the last of a line of diplomatic distinctions, naturalized him in the English language and in English society; and it was enriched with the cordial regard of such men as Arnold, Hare, and Kingsley. In all the variety of his active toils, whether in spinning again the thread of ancient history, in denouncing ecclesiastical in-

tolerance, or in gathering up the hymns of the Church, we meet a man who clung to his belief in progress, and knew no synonyme for selfishness but sin.

A more noble and dignified retirement than that of his last years it would be difficult for a public servant to find. For a while out of favor at court, he withdrew to a beautiful home on the banks of the Neckar, where he lived in his family and surrounded by his books and other friends. Any one who has passed a day under that hospitable roof will not soon forget the kindly greeting of the benevolent and venerable man. Honors returned to him in due time, and he removed to the seat of that University which had heard the last teachings of his early friend and patron, Niebuhr. He lived long enough to witness the breaking away over Italy of that cloud which had nearly filled him with despair. And when death came upon him, it found him cheerful and ready. With higher names, the name of Niebuhr lingered on his lips, and now he sleeps beside him. The words he wrote for Arnold's epitaph might well come back to furnish his own: "*Strenuus, unice dilectus, populi Christiani libertatem vindicavit.*"

At present the Academy consists of 156 Resident Fellows, of which the First Class contains 48; the Second Class, 48; the Third Class, 60. The proportions in the sections remain nearly unchanged from last year, except that the section of Philosophy and Jurisprudence, which was before the smallest of the Third Class, is reduced from *thirteen* to *ten* members.

There are 81 Associate Fellows, of which the First Class contains 35; the Second Class, 30; the Third Class, 16.

The actual Foreign Honorary Members are 71; of the First Class, 27; the Second Class, 27; the Third Class, 17.

The Treasurer submitted his Annual Report, which was ordered to be entered in full upon the records.

Professor Lovering read the Report of the Committee on Publication, and Dr. A. A. Gould that of the Library Committee.

Appropriations were voted, on motion of the Treasurer, of \$ 800 for the Library, \$ 1,100 for general expenses, and \$ 1,400 for publications for the ensuing year. On motion of Mr. Emerson, a special appropriation of \$ 400 was voted for the continuation of Dr. Storer's Report on the Fishes of Massachusetts.

Rev. Professor Andrew P. Peabody of Cambridge was elected a Fellow, in Class III. Section 4.

William Ferrel of Cambridge was elected a Fellow, in Class I. Section 1.

At the election, the officers of the preceding year were re-chosen by ballot; and the members of the several standing committees were re-appointed by the chair.

DONATIONS TO THE LIBRARY,

FROM MAY 29, 1860, TO MAY 28, 1861.

American Philosophical Society.

Transactions. New Series. Vol. XI. Part III. 4to. Philadelphia. 1860.

Proceedings. Vol. VII. Jan. 1859 to Jan. 1861. 8vo. Philadelphia. 1861.

Laws and Regulations and List of Members. 8vo pamph. Philadelphia. 1860.

Academy of Natural Sciences, Philadelphia.

Journal. N. S. Vol. IV. Part IV. 4to. Philadelphia. 1860.

Proceedings. Vol. XII. pp. 97-144; 361-476; 517 to end of vol. 8vo. Philadelphia. 1860.

A Notice of the Origin, Progress, and Present Condition of the Academy of Natural Sciences of Philadelphia. By W. S. W. Ruschenberger, M. D. 2d Ed. 8vo. pamph. Philadelphia. 1860.

American Antiquarian Society.

Proceedings in Boston, April 25, 1860; — in Worcester, Oct. 22, 1860; — in Boston, April 24, 1861. 8vo. 3 pamph. Boston. 1860-61.

Archæologia Americana. Transactions and Collections of the American Antiquarian Society. Vol. IV. 8vo. Boston. 1860.

Hon. Henry Wilson.

Message and accompanying Documents. Vol. I. 8vo. Washington. 1860.

Chicago Historical Society.

Transactions of the Illinois State Agricultural Society, with Notices and Proceedings of County Societies and kindred Associations. Vols. II. and III. 1856-58. 8vo. Springfield. 1857-59.

Second Biennial Report of the Superintendent of Public Instruc-

tion of the State of Illinois, for the Years 1857-1858. 1 vol. 8vo. Springfield. 1859.

Report of the Water Commissioners of the City of Chicago, made to the Common Council, Dec. 8, 1851; together with an Act of Incorporation, and a Statement of the Financial Condition of the City, Nov. 10, 1851. 8vo pamph. Chicago. 1851.

City Comptroller's Third Annual Statement of the Receipts and Expenditures of the City of Chicago, for the Financial Year 1859-60. 8vo pamph. Chicago. 1860.

Eleventh Semi-Annual Report of the Board of Water Commissioners to the Common Council of the City of Chicago, Jan. 1st, 1857. 8vo pamph. Chicago. 1857.

Report and Plan of Sewerage for the City of Chicago, Illinois, adopted by the Board of Sewerage Commissioners, Dec. 31, 1855. 8vo pamph. Chicago. 1855.

Report of the Board of Sewerage Commissioners of the City of Chicago, for the Half-year ending June 30, 1860. 8vo pamph. Chicago. 1860.

Chicago Sewerage. Report of the Results of Examinations made in Relation to Sewerage in several European Cities, in the Winter of 1856-57. By the Chief Engineer of the Board of Sewerage Commissioners. 8vo pamph. Chicago, Ill. 1858.

Second Annual Statement of the Trade and Commerce of Chicago, for the Year ending Dec. 31, 1859. By Seth Catlin, Secretary. 8vo pamph. Chicago. 1860.

Rights of Congregationalists in Knox College: being the Report of a Committee of Investigation of the General Association of Illinois; with an Appendix. 8vo pamph. Chicago. 1859.

Proceedings of the Fourteenth Annual Meeting of the American Institute of Homœopathy, held in Chicago, Wednesday, June 3, 1857. 8vo pamph. Chicago. 1857.

Geological Society, Dublin.

Journal. Vols. III., V., VI. Part II., VII. Parts I. and IV., VIII. Part II. 8vo. Dublin. 1844-59.

Experimental Researches on the Granites of Ireland. By Rev. Samuel Haughton, M. A., F. G. S., etc. [From Quart. Jour. of the Geol. Soc. for Aug. 1858.] 8vo pamph.

On some Rocks and Minerals from Central India, including two new Species, Hislopite and Hunterite. By Rev. Samuel Haughton.

. [From the Phil. Mag. for Jan., 1859.] 8vo pamph. Dublin.

On the Iron Ores of Carnarvonshire. By Rev. Samuel Haughton. [From Jour. of Geol. Soc. of Dublin, Vol. VI. Part II.] 8vo pamph. Dublin. 1854.

On the Lower Carboniferous Beds of the Peninsula of Hook, County of Wexford. By Rev. Samuel Haughton. 8vo pamph.

On the Black Mica of the Granite of Leinster and Donegal; and its probable Identity with Lepidomelane. By Rev. Samuel Haughton. [From Quart. Jour. of Geol. Soc. for Feb. 1859.] 8vo pamph.

On the Felspar and Mica of the Granite of Canton. By Rev. Samuel Haughton. [From Phil. Mag., April, 1859.] 8vo pamph. Dublin. 1859.

On Serpentes and Soapstones. By Rev. Samuel Haughton. [From Phil. Mag. for Oct. 1855.] 8vo pamph. Dublin. *Imperial Society of Natural Sciences, Cherbourg.*

Mémoires. Tom. VI. et VII. 8vo. Paris et Cherbourg. 1859 – 60.

Imperial Academy of Sciences, etc., Dijon.

Mémoires. Deux. Serie. Tom. VII. 1858–59. 8vo. Dijon. 1859.

Imperial Academy of Sciences, etc., Caen.

Mémoires. 1 vol. 8vo. Caen. 1860.

Alexis Perrey.

Note sur les Tremblements de Terre en 1856, avec Suppléments pour les Années Antérieures. 8vo pamph. Dijon. 1858.

Académie des Sciences de l'Institut Impériale de France.

Mémoires. Tom. XXV.; XXVII. 2^{me} Pt.; XXXI. 1^{re} et 2^{me} Pts. 4to. Paris. 1860.

Mémoires presentes par divers Savants. Sc. Math. Tom. XV. 4to. Paris. 1860.

Comptes Rendus. Tom. XLIV. Nos. 1, 2, et Table des Matières; XLVII. Nos. 25 et 26; XLIX. Tables des Matières; L. Nos. 8, 9, 15 – 17, 19 – 26; LI.; LII. Nos. 1 – 17. 4to. Paris. 1859 – 61.

Séances et Travaux de l'Académie des Sciences Morales et Politiques. 3^e Série. Tom. XXX. 10^e Livr. Oct. 1859. 8vo. Paris. *Société de Physique et d'Histoire Naturelle de Genève.*

Mémoires. Tom. XXV. 4to. Genève. 1860.

Société Impériale Zoologique d'Acclimatation.

Bulletin. Tom. III. Nos. 1, 3-12; V. No. 12; VI. Nos. 7-9;
VII. Nos. 1, 2, 4-10, 12; VIII. No. 3. 8vo. Paris. 1856-61.

Royal Prussian Academy.

Abhandlungen. Jahr. 1858 und 1859. 4to. Berlin. 1858-59.
1854 Zweiter Suppl. Band.

Monatsbericht. Jahr. 1859. 8vo. Berlin. 1859.

Imperial Academy of Sciences, Vienna.

Denkschriften. Math.-Natur. Classe. Band. XVI., XVII.,
XVIII.—Phil.-Hist. Classe. Band. IX und X. 4to. Wien.
1859-60.

Sitzungsberichte. Phil.-Hist. Classe. Band. XXX., XXXI.
Heft. 1-3; XXXII. Heft 1; XXXIII., XXXIV., XXXV., Heft.
1 und 2; Register zu den Bänden 21 bis 30.—Math.-Natur. Classe.
Band. XXXVII., XXXIX., XL., XLI., XLII. No. 21; Register
zu den Bänden 21 bis 30. 8vo. Wien. 1859-60.

Almanach der Kais. Akad. der Wissen. 9 und 10 Jahr. 16mo.
Wien. 1859-60.

Jahrbucher der K. K. Central-Anstalt zur Meteorologie und
Erdmagnetismus von Karl Kriegl. Band VI. Jahr. 1854. 4to.
Wien. 1859.

Batavian Society of Arts and Sciences.

Acta Societatis Scientiarum Indo-Neerlandicæ. Vols. I.-IV.
4to. Batavia. 1856-58.

Natuurkundig Tijdschrift voor Nederl. Indie. Deel IV.-XVIII.,
XX. 8vo. Batavia. 1853-60.

Natural-History Society of the Prussian Rhineland and Westphalia.

Verhandlungen. XVI. Jahr. 8vo. Bonn. 1859.

University of Bonn.

Index Scholarum quæ in Universitate Frid. Guil. Rhen. 1859 a
die II. Mai, publice privatimque habebuntur.—Præcedunt Porcii
Licini de Vita Terentii Versus Integritati Restituti. 4to pamph.
Bonnæ. 1858.

Index Scholarum, etc. 1859 et 60 a die XV. Octobris, etc.—Præ-
cedit Disputatio de Poetarum Testimoniis quæ sunt in Vita Terentii
Suetonia. 4to pamph. Bonnæ. 1859.

Indicia Quinque Ordinum Univ. Frid. Guil. Rhen. de Litterarum
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Four hundred and ninety-seventh meeting.

August 14, 1861. — STATUTE MEETING.

The PRESIDENT in the chair.

The Corresponding Secretary read letters relative to the exchanges of the Academy; also letters from the Rev. Professor Peabody and Mr. Ferrel, in acknowledgment of the official notification that they had been chosen Fellows of the Academy, and from the family of the late Chief Justice Shaw, and from that of the late Judge White, in acknowledgment of the reception of copies of the resolves of the Academy adopted upon the occasion of the announcement of their decease.

A quorum for the transaction of business not being present, scientific communications only were received.

Dr. Beck gave an account of the principal manuscript copies of the *Satyricon* of Petronius Arbiter preserved in various European libraries, and which he had examined; and he presented to the Academy a collation of the various readings of these manuscripts, with a view to the construction of an amended text of this author.

The Corresponding Secretary communicated, from the author, the following paper: —